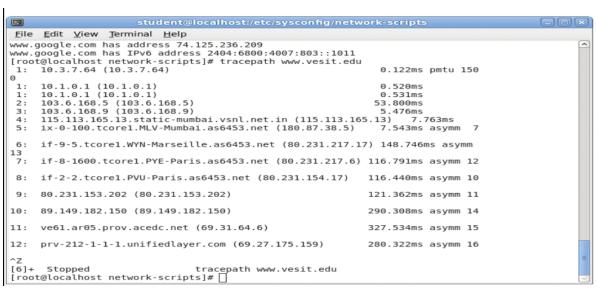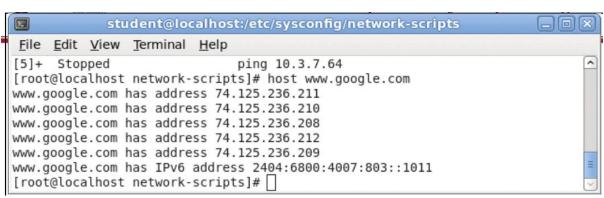```
student@localhost:/etc/sysconfig/network-scripts
File Edit View Terminal Help
^Z
[2]+ Stopped   ping 10.3.7.71
[root@localhost network-scripts]# ifconfig
eth0   Link encap:Ethernet HWaddr 00:23:54:FA:4E:C0
          inet addr:10.3.7.64 Bcast:10.255.255.255 Mask:255.0.0.0
          inet6 addr: fe80::223:54ff:fefa:4ec0/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:65227 errors:0 dropped:0 overruns:0 frame:0
          TX packets:310 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:4998539 (4.7 MiB) TX bytes:48285 (47.1 KiB)
          Interrupt:27 Base address:0x4000

lo   Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING MTU:16436 Metric:1
          RX packets:17 errors:0 dropped:0 overruns:0 frame:0
          TX packets:17 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:1728 (1.6 KiB) TX bytes:1728 (1.6 KiB)

[root@localhost network-scripts]#
```

```
student@localhost:/etc/sysconfig/network-scripts
File  Edit  View  Terminal  Help
www.google.com has address 74.125.236.209
www.google.com has IPv6 address 2404:6800:4007:803::1011
[root@localhost network-scripts]# tracepath www.vesit.edu
 1:  10.3.7.64 (10.3.7.64)                          0.122ms pmtu 150
0
 1:  10.1.0.1 (10.1.0.1)                            0.520ms
 1:  10.1.0.1 (10.1.0.1)                            0.531ms
 2:  103.6.168.5 (103.6.168.5)                     53.800ms
 3:  103.6.168.9 (103.6.168.9)                      5.476ms
 4:  115.113.165.13.static-mumbai.vsnl.net.in (115.113.165.13)   7.763ms
 5:  ix-0-100.tcore1.MLV-Mumbai.as6453.net (180.87.38.5)    7.543ms asymm  7

 6:  if-9-5.tcore1.WYN-Marseille.as6453.net (80.231.217.17) 148.746ms asymm
13
 7:  if-8-1600.tcore1.PYE-Paris.as6453.net (80.231.217.6) 116.791ms asymm 12

 8:  if-2-2.tcore1.PVU-Paris.as6453.net (80.231.154.17)   116.440ms asymm 10

 9:  80.231.153.202 (80.231.153.202)               121.362ms asymm 11

10:  89.149.182.150 (89.149.182.150)               290.308ms asymm 14

11:  ve61.ar05.prov.acedc.net (69.31.64.6)         327.534ms asymm 15

12:  prv-212-1-1-1.unifiedlayer.com (69.27.175.159)  280.322ms asymm 16

^Z
[6]+  Stopped                    tracepath www.vesit.edu
[root@localhost network-scripts]#
```

```
student@localhost:/etc/sysconfig/network-scripts
File  Edit  View  Terminal  Help
Shutting down interface eth0:                              [  OK  ]
Shutting down loopback interface:                         [  OK  ]
Bringing up loopback interface:                           [  OK  ]
Bringing up interface eth0:                               [  OK  ]
[root@localhost network-scripts]# finger
Login       Name            Tty      Idle  Login Time   Office    Office Phone
student                     tty1      18   Sep 25 14:42 (:0)
student                     pts/0          Sep 25 14:58 (:0.0)
[root@localhost network-scripts]# traceroute www.vesit.edu
traceroute to www.vesit.edu (192.232.218.214), 30 hops max, 60 byte packets
 1  10.1.0.1 (10.1.0.1)  0.183 ms  0.172 ms  0.158 ms
 2  103.6.168.5 (103.6.168.5)  2.255 ms  2.238 ms  2.216 ms
 3  103.6.168.9 (103.6.168.9)  3.691 ms  3.646 ms  3.600 ms
 4  115.113.165.13.static-mumbai.vsnl.net.in (115.113.165.13)  29.542 ms  29.523
 ms  29.995 ms
 5  ix-0-100.tcore1.MLV-Mumbai.as6453.net (180.87.38.5)  29.106 ms  27.634 ms *
 6  * * *
 7  * * *
 8  if-2-2.tcore1.PVU-Paris.as6453.net (80.231.154.17)  113.120 ms  112.498 ms
115.534 ms
 9  80.231.153.202 (80.231.153.202)  113.036 ms  128.404 ms  112.449 ms
10  89.149.182.150 (89.149.182.150)  283.063 ms  282.556 ms  283.514 ms
11  ve61.ar05.prov.acedc.net (69.31.64.6)  299.033 ms  298.728 ms  299.169 ms
12  prv-212-1-1-2.unifiedlayer.com (69.27.175.161)  272.779 ms prv-212-1-1-1.uni
fiedlayer.com (69.27.175.159)  275.593 ms prv-212-1-0-3.unifiedlayer.com (69.27.
175.155)  274.802 ms
13  192.232.218.214 (192.232.218.214)  273.123 ms  273.055 ms  273.324 ms
[root@localhost network-scripts]#
```

```
student@localhost:/etc/sysconfig/network-scripts
File  Edit  View  Terminal  Help
[5]+  Stopped                 ping 10.3.7.64
[root@localhost network-scripts]# host www.google.com
www.google.com has address 74.125.236.211
www.google.com has address 74.125.236.210
www.google.com has address 74.125.236.208
www.google.com has address 74.125.236.212
www.google.com has address 74.125.236.209
www.google.com has IPv6 address 2404:6800:4007:803::1011
[root@localhost network-scripts]#
```

Exp2


```
:\Users\Y540>nslookup google.com
erver:  UnKnown
ddress:  192.168.0.1

on-authoritative answer:
ame:    google.com
ddresses:  2404:6800:4009:82a::200e
           142.250.192.110


:\Users\Y540>
```



```
student@lenovo804-ThinkCentre-M70e:~$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen
    link/ether 44:37:e6:4d:df:1b brd ff:ff:ff:ff:ff:ff
    inet 10.1.8.4/8 brd 10.255.255.255 scope global eth0
       valid_lft forever preferred_lft forever
    inet6 fe80::4637:e6ff:fe4d:df1b/64 scope link
       valid_lft forever preferred_lft forever
3: docker0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default
    link/ether 02:42:cf:c7:15:71 brd ff:ff:ff:ff:ff:ff
    inet 172.17.0.1/16 scope global docker0
       valid_lft forever preferred_lft forever
student@lenovo804-ThinkCentre-M70e:~$
```